ABSTRACT OF THE DISCLOSURE

A system and method for controlling carbon dioxide (CO_2) emissions emanating from a gas source includes a CO_2 sorbent bed containing a regenerable sorbent. Exhaust gases flow through the CO_2 sorbent bed before being released into the atmosphere. The CO_2 sorbent bed traps CO_2 contained within the exhaust gas to control the amount of CO_2 finally exhausted to the atmosphere. At least two CO_2 sorbent beds are used such that while one is absorbing CO_2 from the gas stream another is being regenerated. The CO_2 sorbent bed is regenerated to release the trapped CO_2 for disposal or use in other processes. The CO_2 sorbent beds are cycled between absorbing CO_2 and regenerating to optimize absorbtion of CO_2 .

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